CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/NV/CSR-12/719/CEMENT/2014-15

Date: 31.12.2014

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. N. Venu,** Contractor, Bangalore.
***NAME OF THE WORK**	:	Improvement of road and drains from Gangamma temple to Kodigehalli main road in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.
***REFERENCE**	:	AEE(KSD) /PR/2014-15 Dated: 29.12.2014
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	29.12.2014
PERIOD OF TESTING	:	29.12.2014 to 31.12.2014

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

AE-8

*Information is furnished by the Customer/Representative.

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH .C
Quality Manager

Verified

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Job No.: CTCE/BBMP/W.No.08/NV/CSR-12/719/SAND-Gradation/2014-15 : 31.12.2014

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N. Venu,** Contractor, Bangalore.

*** Name of Work** : Improvement of road and drains from Gangamma temple to Kodigehalli main road in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD) /PR/2014-15 Dated: 29.12.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 29.12.2014

Date of Testing : 31.12.2014

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.00	90-100	90-100	90-100	95-100
2.36	73.00	60-95	75-100	85-100	95-100
1.18	44.50	30-70	55-90	75-100	90-100
600 Micron	29.30	15-34	35-59	60-79	80-100
300 Micron	16.70	5-20	8-30	12-40	15-50
150 Micron	5.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.08/NV/CSR-12/719/AGG/GR/2014-15 : 31.12.2014

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N. Venu,** Contractor, Bangalore.

*** Name of Work** : Improvement of road and drains from Gangamma temple to Kodigehalli main road in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD) /PR/2014-15 Dated: 29.12.2014

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 29.12.2014

Date of Testing : 31.12.2014

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.15	95-100	85-100
20	46.15	30-70	0-20
10	17.57	10-35	0-5
4.75	2.15	0-5	-

AE-8

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.08/NV/CSR-12/719/CUBE/2014-15 30.01.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. N. Venu,** Contractor, Bangalore.

*** Name of the work** : Improvement of road and drains from Gangamma temple to Kodigehalli main road in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE(KSD) /PR/2014-15 Dated: 29.12.2014

*** Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 02.01.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.01.2015	30.01.2015	8.248	510.6	22.69
2	02.01.2015	30.01.2015	8.159	478.2	21.25
3	02.01.2015	30.01.2015	8.310	496.5	22.07

AE-8

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